

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
10 February 2005 (10.02.2005)

PCT

(10) International Publication Number
WO 2005/012619 A1

(51) International Patent Classification⁷: D04H 3/03, 3/16,
D01D 5/098, D01F 9/145

D. [US/US]; 1 Clairemont Circle, Tullahoma, TN 37388
(US). ROSSILON, Daniel, F. [US/US]; 2504 Copper
Creek, Ponca City, OK 74604 (US).

(21) International Application Number:

PCT/US2004/023864

(74) Agents: RICHARDS, John et al.; Ladas & Parry LLP, 26
West 61st Street, New York, NY 10023 (US).

(22) International Filing Date: 26 July 2004 (26.07.2004)

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(25) Filing Language: English

(26) Publication Language: English

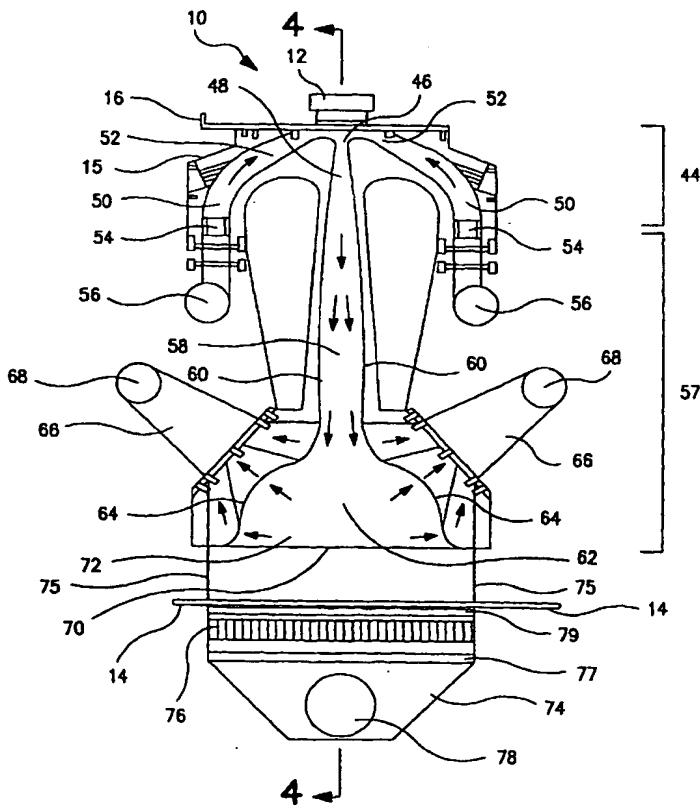
(30) Priority Data:
60/489,991 25 July 2003 (25.07.2003) US

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM).

(71) Applicant (for all designated States except US): CONOCOPHILLIPS COMPANY [US/US]; 600 North Dairy
Ashford, Houston, TX 77079 (US).

[Continued on next page]

(54) Title: PROCESS AND APPARATUS FOR COLLECTION OF CONTINUOUS FIBERS AS A UNIFORM BATT



WO 2005/012619 A1

(57) Abstract: A process and apparatus for collecting continuous fibers or filaments as a uniform batt comprises a filament emitter in the form of a spinning die, a venturi, a diffuser, and a fiber collection bed. The filaments move downward after being created by the emitter, and exhaust ports create in the diffuser an airflow having a direction against the flow of the filaments so that the filaments are decelerated before contacting the fiber collection bed.



European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.